## CLAIMS

Claim 1 (currently amended). An actuating mechanism for a mechanical brake, the brake having a rotatable shaft rotatively supported to a frame by an intermediate member, the rotary shaft having a rotational axis, the brake comprising a friction surface, said friction surface being connected to the shaft,

a brake member, said brake member being movably connected to the intermediate member,

a mechanical activator, said mechanical activator being mounted about a pivot axis extending perpendicular to the rotational axis of the rotary shaft to said intermediate member for movement between first and second positions, one of said first or second positions moving said brake member into contact with said friction surface to impede the rotation of the shaft, said mechanical actuator being wholly on a first side of the rotational axis of the rotary shaft,

a spring, means to connect said spring to said intermediate member to bias said mechanical activator in one of said first or second positions,

a cavity, said cavity being in said intermediate member, said cavity being on the same first side of the rotational axis of the rotary shaft as said mechanical

actuator, said cavity being displaced from said friction surface in respect to the longitudinal length of the rotational axis of the shaft,

a piston, said piston being in said cavity to define a chamber, said piston moveable in said cavity in a first direction, said first direction being substantially perpendicular to the rotational axis of the shaft,

connect means to connect said piston to said spring and pressurization means to pressurize said chamber to move said spring from its position biasing said mechanical activator in one of said first or second positions to the other of said first or second positions.

Claim 2 (presently pending). The brake of claim 1 characterized in that said spring is in said cavity.

Claim 3 (presently pending). The brake of claim 2 characterized in that said spring is on the opposite side of said mechanical activator from said piston.

Claim 4 (presently pending). The brake of claim 1 characterized in that said mechanical activator is a pivoting lever.

Claim 5 (presently pending). The brake of claim 3 characterized in that said mechanical activator is a pivoting lever.

Claim 6 (presently pending). The brake of claim 1 characterized in that said piston includes a pressure plug and a spring plug together with a means interconnecting said spring plug to said pressure plug,

said pressure plug being adjacent to said chamber, and said spring plug being adjacent to said spring.

Claim 7 (presently pending). The brake of claim 6 characterized in that said mechanical activator includes a section located between said pressure plug and said spring plug within said chamber.

Claim 8 (presently pending). The brake of claim 7 characterized in that said mechanical activator is a lever, and said lever being in contact with said spring plug.

Claim 9 (presently pending). The brake of claim 1 characterized by the addition of a deactivating means, and said deactivating means deactivating said spring.

Claim 10 (presently pending). The brake of claim 9 characterized in that said deactivating means is between said spring and said intermediate member.

Claim 11 (presently pending). An actuating mechanism for a mechanical brake, the brake having a rotatable shaft rotatively supported to a frame by an intermediate member, the brake comprising a friction surface, said friction surface being connected to the shaft,

a brake member, said brake member being movably connected to the intermediate member,

a mechanical activator, said mechanical activator being mounted to said intermediate member for movement between first and second positions, one of said first or second positions moving said brake member into contact with said friction surface to impede the rotation of the shaft,

a spring, means to connect said spring to said intermediate member to bias said mechanical activator in one of said first or second positions,

a cavity, said cavity being in said intermediate member, a piston, said piston being in said cavity to define a chamber,

connect means to connect said piston to said spring and pressurization means to pressurize said chamber to move

said spring from its position biasing said mechanical activator in one of said first or second positions to the other of said first or second positions,

a deactivating means, said deactivating means deactivating said spring, and

said deactivating means is a rotating cam.

Claim 12 (presently pending). The brake of claim 1 characterized by the addition of a stop, said stop being located to stop movement of said spring beyond said other of said first or second positions.

Claim 13 (presently pending). An actuating mechanism for a mechanical brake, the brake having a rotatable shaft rotatively supported to a frame by an intermediate member, the rotary shaft having a rotational axis, the brake comprising a friction surface, said friction surface being connected to the shaft,

a brake member, said brake member being movably connected to the intermediate member,

a mechanical activator, said mechanical activator
being mounted to said intermediate member for movement between
first and second positions, one of said first or second
positions moving said brake member into contact with said

friction surface to impede the rotation of the shaft, said mechanical actuator being on a first side of the rotational axis of the rotary shaft,

a spring, means to connect said spring to said intermediate member to bias said mechanical activator in one of said first or second positions,

a cavity, said cavity being in said intermediate member, said cavity being on the same first side of the rotational axis of the rotary shaft as said mechanical actuator, said cavity being displaced from said friction surface in respect to the longitudinal length of the rotational axis of the shaft,

a piston, said piston being in said cavity to define a chamber, said piston moveable in said cavity in a first direction, said first direction being substantially perpendicular to the rotational axis of the shaft,

connect means to connect said piston to said spring and pressurization means to pressurize said chamber to move said spring from its position biasing said mechanical activator in one of said first or second positions to the other of said first or second positions,

the shaft being rotated by a hydraulic pressure motor with a pressurized input and line means to fluidically connect

said chamber pressurized line of the hydraulic pressurized motor.

Claim 14 (presently pending). The brake of claim 13 wherein the hydraulic pressurized motor has two inputs either one of which might be pressurized and characterized by said line means being connected to both inputs such that the pressurization of either will pressurize said chamber to move said piston.

Claim 15 (presently pending). The brake of claim 1 characterized in that the shaft has an axis, said cavity has an axis, and said axis of said cavity being substantially perpendicular to said axis of the shaft.

Claim 16 (presently pending). The brake of claim 15 characterized in that said axis of said cavity being offset from said axis of said shaft.

Claim 17 (presently pending). The brake of claim 16 characterized in that said intermediate member is substantially of a single piece construction.

Claim 18 (currently amended). A brake for a rotatable shaft rotatively supported to a frame by an intermediate member, the rotary shaft having a rotational axis, the brake comprising a friction surface, said friction surface being connected to the shaft,

a brake member, said brake member being movably connected to the intermediate member,

a mechanical activator, said mechanical activator being mounted to said intermediate member for movement about a pivot axis extending perpendicular to the rotational axis of the rotary shaft between first and second positions, one of said first or second positions moving said brake member into contact with said friction surface to impede the rotation of the shaft, said mechanical actuator being wholly on a first side of the rotational axis of the rotary shaft,

a cavity, said cavity being in said intermediate member between the mechanical activator and the other end of said cavity, said cavity having two ends, said mechanical activator extending into said cavity, said cavity being on the same first side of the rotational axis of the rotary shaft as said mechanical actuator, said cavity being displaced from said friction surface in respect to the longitudinal length of the rotational axis of the shaft,

a spring, said spring being in said cavity between said mechanical activator and one end of said cavity,

means to connect said spring to one end of said cavity to bias said mechanical activator in one of said first or second positions,

a piston, said piston being in said cavity to define a chamber, said piston moveable in said cavity in a first direction, said first direction being substantially perpendicular to the rotational axis of the shaft,

connect means to connect said piston to said spring and pressurization means to pressurize said chamber to move said spring from its position biasing said mechanical activator in one of said first or second positions to the other of said first or second positions.

Claim 19 (presently pending). The brake of claim 18 characterized in that said mechanical activator is a pivoting lever.

Claim 20 (presently pending). The brake of claim 18 characterized in that said piston includes a pressure plug and a spring plug together with a means interconnecting said spring plug to said pressure plug,

said pressure plug being adjacent to said chamber, and said spring plug being adjacent to said spring.

Claim 21 (presently pending). The brake of claim 20 characterized in that said mechanical activator includes a section located between said pressure plug and said spring plug within said chamber.

Claim 22 (presently pending). The brake of claim 21 characterized in that said mechanical activator is a lever; and said lever being in contact with said spring plug.

Claim 23 (presently pending). The brake of claim 21 characterized by the addition of a deactivating means, and said deactivating means deactivating said bias means.

Claim 24 (presently pending). The brake of claim 23 characterized in that said deactivating means is between said spring and said one end of said cavity.

Claim 25 (currently amended). A brake for a rotatable shaft rotatively supported to a frame by an intermediate member, the brake comprising a friction surface, said friction surface being connected to the shaft,

a brake member, said brake member being movably connected to the intermediate member,

a mechanical activator, said mechanical activator being mounted to said intermediate member for movement about a pivot axis extending perpendicular to the rotational axis of the rotary shaft between first and second positions, one of said first or second positions moving said brake member into contact with said friction surface to impede the rotation of the shaft,

a cavity, said cavity being in said intermediate member between the mechanical activator and the other end of said cavity, said cavity having two ends, said mechanical activator extending into said cavity,

a spring, said spring being in said cavity between said mechanical activator and one end of said cavity, bias means to connect said spring to one end of said cavity to bias said mechanical activator in one of said first or second positions,

a piston, said piston being in said cavity to define a chamber, said piston including a pressure plug, a spring plug, and a bypass means interconnecting same, said pressure plug being adjacent to said chamber, said spring plug being adjacent to said spring, said mechanical activator including a

section located between said pressure plug and said spring plug within said bypass means,

connect means to connect said piston to said spring pressurization means to pressurize said chamber to move said spring from its position biasing said mechanical activator in one of said first or second positions to the other of said first or second positions,

a rotating cam, a deactivating means, said deactivating means deactivating said bias means, and said deactivating means is a rotating cam.

Claim 26 (presently pending). The brake of claim 18 characterized by the addition of a stop, said stop being located to stop movement of said spring beyond said other of said first or second positions.

Claim 27 (presently pending). A brake for a rotatable shaft rotatively supported to a frame by an intermediate member, the rotary shaft having a rotational axis, the brake comprising a friction surface, said friction surface being connected to the shaft,

a brake member, said brake member being movably connected to the intermediate member,

a mechanical activator, said mechanical activator being mounted to said intermediate member for movement between first and second positions, one of said first or second positions moving said brake member into contact with said friction surface to impede the rotation of the shaft, said mechanical actuator being on a first side of the rotational axis of the rotary shaft,

a cavity, said cavity being in said intermediate member between the mechanical activator and the other end of said cavity, said cavity having two ends, said mechanical activator extending into said cavity, said cavity being on the same first side of the rotational axis of the rotary shaft as said mechanical actuator, said cavity being displaced from said friction surface in respect to the longitudinal length of the rotational axis of the shaft,

a spring, said spring being in said cavity between said mechanical activator and one end of said cavity,

means to connect said spring to one end of said cavity to bias said mechanical activator in one of said first or second positions,

a piston, said piston being in said cavity to define a chamber, said piston moveable in said cavity in a first direction, said first direction being substantially perpendicular to the rotational axis of the shaft,

connect means to connect said piston to said spring and pressurization means to pressurize said chamber to move said spring from its position biasing said mechanical activator in one of said first or second positions to the other of said first or second positions,

the shaft being rotated by a hydraulic pressure motor with a pressurized input and line means to fluidically connect said chamber pressurized line of the hydraulic pressurized motor.

Claim 28 (currently amended). A brake actuator for a mechanical brake on a rotating shaft having an axis of rotation, the mechanical brake having an operating <u>pivot</u> lever movable <u>about a pivot axis extending perpendicular to the axis of rotation of the rotary shaft between first and second positions each producing a different activated condition of the brake,</u>

said brake comprising an actuating mechanism, said actuating mechanism having a cavity with an axis and two ends, said axis of said cavity being substantially perpendicular to and offset from the rotational axis of the shaft, the operating lever of the brake having a part in said cavity, said cavity being displaced from said friction surface in respect to the longitudinal length of the rotational axis of the shaft,

a spring, said spring being in said cavity extending between an end of said cavity and said part of the operating lever so as to bias said lever in one of the first or second positions,

a piston, said piston being in said cavity between the other end of said cavity and said part of the operating lever,

bypass means bypassing said operating lever to connect said piston to said spring, said piston in said cavity defining a chamber,

and selective means to pressurize said chamber to move said piston against said bias of said spring providing the ability for the operating lever to move to the other of the first or second positions.

Claim 29 (presently pending). The brake of claim 28 characterized by the addition of stop means to prevent the over-compression of said spring.

Claim 30 (presently pending). A brake actuator for a mechanical brake on a rotating shaft having an axis of rotation, the mechanical brake having an operating lever movable between first and second positions each producing a different activated condition of the brake,

said brake comprising an actuating mechanism, said actuating mechanism having a cavity with an axis and two ends, said axis of said cavity being substantially perpendicular to and offset from the rotational axis of the shaft, the operating lever of the brake having a part in said cavity,

a spring, said spring being in said cavity extending between an end of said cavity and said part of the operating lever so as to bias said lever in one of the first or second positions,

a piston, said piston being in said cavity between the other end of said cavity and said part of the operating lever, bypass means to connect said piston to said spring with the capacity to overcome said bias of said spring, said piston in said cavity defining a chamber,

selective means to pressurize said chamber to overcome said bias of said spring providing the ability for the operating lever to move to the other of the first or second positions,

a deactivating cam, said deactivating cam being between said spring and an end of said cavity and said deactivating cam being movable so as to substantially eliminate said bias of said spring on the operating lever.

Claim 31 (presently pending). The brake of claim 28 characterized in that said bypass means includes said piston having two plugs axially spaced in said cavity on either side of said part of the operating lever and a bypass portion connecting said two plugs.

Claim 32 (presently pending). A brake for a rotatable shaft rotatably supported to a frame by an intermediate member, the brake comprising a mechanical activator,

a cavity, said cavity being in said intermediate member, means for said mechanical activator to alter the condition of said brake, said cavity having an end,

a deactivating cam, said deactivating cam being located at said end of said cavity, said deactivating cam having an activating and a deactivating surface,

a spring, said spring being in said cavity between said deactivating cam and said mechanical activator,

and selective means to move said cam engaging said activating surface with said spring to spring bias said mechanical activator in respect to said end of said cavity.

Claim 33 (cancelled).

Claim 34 (cancelled).